

Patent claims

1. A guarantee hinge closure for film-sealed bottles and containers of flowable contents, with a cap-like lower part (1) with an inner thread (16) which on its cap lid (5) is closed with the exception of a pour-out spout (4) of less than half the diameter of the inner thread (16) of the cap lid (5), as well as with a lid cap (2) which is integrally formed in a hinged manner on this lower part (1), with a muff (7) formed on its inner side for encompassing the pour-out spout (4) in the closure position, characterised in that the cap lid (5) of the lower part (1) outside the pour-out spout (4) includes a piercing means (6) with a piercing spike (24) arranged centrically to it, said piercing means being able to be pressed from an upper, initial position amid springing deformation into a lower end position, and the lid cap (2) includes a push button (8) for actuating the piercing means (6), said push button being connected to this via material bridges (9) which are envisaged to act as break-off locations.
2. A guarantee hinge closure for film-sealed bottles and containers according to claim 1, characterised in that the lid cap (2) includes a push button (8) with a downwardly projecting cam (10) and a protruding edge bead (11), wherein the push button (8) is integrated into the lid cap (2) and is held on this via a number of material bridges (9), and that the cam (10) on pivoting closed the lid cap (2) onto the lower part (1) of the closure for the first time irreversibly locks behind beads (13) on the grip pieces (12) on the arch-like outward formation (22), and the lid cap (2) belonging to this lower part in a hinged manner after this may only be pivoted open amid breakage of the material bridges (9), so that these act as integrity guarantee means.
3. A guarantee hinge closure for film-sealed bottles and containers according to one of the preceding claims, characterised in that the piercing means (6) consists of an arch-like outward formation (22) in the cap lid (5), which projects outwards or upwards on the lower part (1) in the initial position and by way of a springing deformation may be pressed into an inwardly or downwardly projecting position, and which on its inner side comprises a centrally arranged downwardly projecting piercing spike (24).
4. A guarantee hinge closure for film-sealed bottles and containers according to one of the preceding claims, characterised in that the piercing spike (24) on the lower side of the arch-like outward formation (22), for keeping open a hole pierced open by the piercing spike (24), is reinforced by way of radial ribs (25).

5. A guarantee hinge closure for film-sealed bottles and containers according to one of the preceding claims, characterised in that the arch-like outward formation (22) on its lower side is provided with spirally arranged stabilising ribs (29) which are envisaged to act as flow aids on injection moulding the arch-like outward formation.

6. A guarantee hinge closure for film-sealed bottles and containers according to one of the preceding claims, characterised in that the arch-like outward formation (22) in the cap lid (5) opens into a recess (21) which is recessed from the cap lid (5) and opens into the opening (20) of the pour-out spout (4).